

TITLE: PEACH TREE NAMED 'GL4/66'

ORIGIN OF THE VARIETY

The present new and distinct variety of peach tree (*Prunus persica*) was originated from an open pollinated population of seedlings derived from the variety 'Yumyeong' planted in 1990 at the HortResearch experimental orchard in Havelock North, New Zealand. Paul G. Glucina established a large group of open-pollinated seedlings on their own roots and under careful observation one seedling representing the present variety was selected and asexually propagated for further evaluation by Michael T. Malone. The selection was further propagated by asexual reproduction for the first time in 1995.

ASEXUAL REPRODUCTION OF THE VARIETY

The new variety was budded onto 'Golden Queen' peach rootstock and shows the unique combination of characteristics and distinctive colour are true to the original seedling tree and are transmitted through succeeding asexual generations.

SUMMARY OF THE VARIETY

The described variety of peach tree is of a medium to large size, vigorous, with a spreading growth habit. It is a regular and productive bearer of medium to large white flesh, clingstone fruit with a sweet sub-acid taste and very firm crisp flesh with good fruit aroma. The fruit has very good flavour and eating quality. The firm flesh exhibits good storage and the skin

has an attractive pink colour over a cream background. The fruit ripens mid season approximately two weeks before the 'Yumyeong' parent variety.

BRIEF DESCRIPTION OF THE DRAWINGS

5 The accompanying photograph shows typical specimens of the foliage and the fruit of the new variety as depicted in colours as nearly true as is reasonably possible in a colour representation of this type. The upper and lower surfaces of the leaves, and the exterior view of the fruit, are shown. The photograph was taken after two weeks air storage of fruit harvested at eating maturity.

DETAILED DESCRIPTION OF THE NEW VARIETY

The following is a detailed description of the new variety with colour terminology in accordance with the Royal Horticultural Society Colour Chart, 1986 edition. The specimens described were grown in Havelock North and Clyde, Central Otago, New Zealand. The observations were made in the 2001 season on trees which were four years old at the time.

Tree

Size	Large
Vigour	Vigorous
Form	Pruned to central leader, with a spreading growth habit

Trunk

Size	Medium
Texture	Medium rough
Colour	Grey/brown 197A

Branch

5	Size	Medium
	Lenticels	Medium number, large elongated shape

Leaves

	Size	Medium to large
	Average Width	55 mm
	Average Length	190 mm
	Form	Pointed
	Shape of Tip	Acuminate
	Angle of Tip	Narrow acute
	Shape of Base	Attenuate
	Incision of Margin	Crenate
	Thickness	Medium
	Surface	Smooth
	Petiole	Medium length, medium thickness (average 15 mm)

20	Glands	Reniform, elongated
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	Nectaries on Fully Developed Leaf	Usually more than two, average 4
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Colour - Upper Surface

Dark green 141A

Color - Lower Surface

Light green 146B

Flower Buds

Size

Medium to large

5

Length

Medium

Form

Plump

Flowers

Size

Medium to large

Pollen

Present

Colour

Medium pink

Petal shape

Round

Pubescence of Ovary

Present

Fruit

Maturity for Consumption

Ripe

Season

Mid-late

Size

Medium

Average Weight

170 g

Average Diameter Across Suture Line

73 mm

Average Length

64 mm

Shape (ventral view)

Round oblate, symmetrical

Shape of Pistil End

Rounded, slightly depressed

Suture

Shallow, extends from base to apex

Sub
A2

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152720"4250650

Cavity	Rounded, medium to deep, average depth 9 mm, average width 28 mm
Flesh	
Ripening	Even
Texture	Firm, non-melting
Fibres	Non-fibrous
Aroma	High
Eating Quality	Good
Flavour	Low acid, mild
Soluble Solids	Average 10-12° Brix
Juice	Moderately juicy
Colour	White 155D
Anthocyanin	Low
Stem	
Size	Medium, average 0.5 cm
Colour	Yellow green 150C
Skin	
Thickness	Medium
Texture	Medium to strong adherence of skin to flesh
Density of Pubescence	Medium
Tendency to Crack	None
Colour	Red 46A, blending to dark pink 48A blush

pattern of over colour. Cream ground
colour 11D

Stone

Type Clingstone

Size Medium

Average Length 32 mm

Average Width 26 mm

Average thickness 18 mm

Average Weight 6.5 g

Shape (lateral view) Round/elliptic

Surface Pits and grooves, pitted towards the base

Tendency to Split None

Colour Brown 165A

Use Local and export markets

Storage Good; storage trials indicate 2-3 weeks
storage without internal breakdown of flesh

The present new variety of peach tree, its flowers, foliage and fruit herein described may vary slightly in detail due to climate, soil conditions and cultural practices under which the variety may be grown. The present description is that of the variety grown under the environmental conditions prevailing near Havelock North, Hawke's Bay, New Zealand.